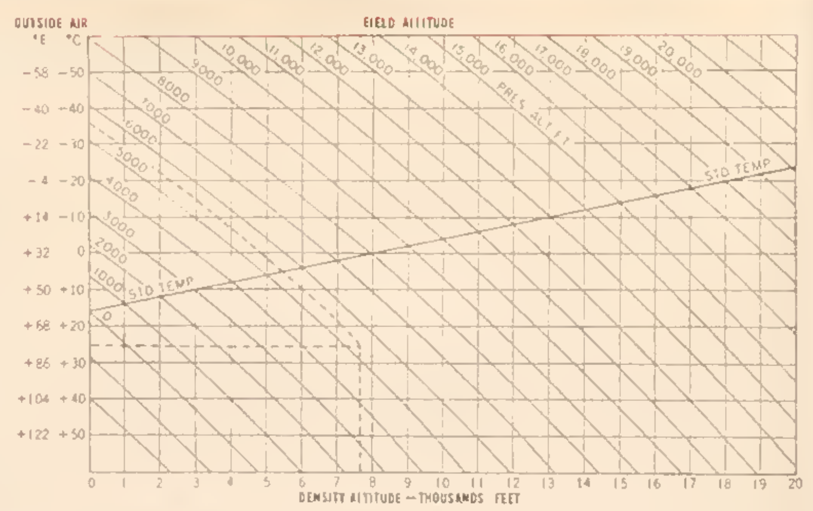
3 0864 1006 7716 3

OPERATIONAL ALTITUDE CHART



The following example illustrates the simple use of this chart to determine the conditions at the airport you plan to use:

Select the actual altitude of the airport to be used on the diagonal lines marked "Field Altitude" (Example: 5500 ft.). Next, select the temperature (Example: 77° F.). Follow the temperature line to the right until it crosses the diagonal line (Field Altitude). From the point where these two lines cross, follow a line to the bottom of the chart and observe the operational or density altitude. (Example: 7700 ft.)

Do you realize that Kansas City Airport, 740 ft. above Sea Level can be the same altitude as Denver Airport, 5241 ft. above Sea Level, under certain conditions?

Do you realize that Laramie, Wyoming Airport at 7270 ft. above Sea Level can be above the safe operational altitude of your aircraft under certain conditions?

Example: 7270 ft. field altitude and a temperature 86° F. gives you 10,250 ft. Therefore, from the operational standpoint you are using an airport that is 10,250 ft. above Sea Level.

To eliminate confusion, barometric pressure has been eliminated from the above chart, therefore, it will not give the absolutely correct Density Altitude, but the figures given will be so nearly correct that if the chart is used, it should eliminate any possibility of exceeding the limitations of your aircraft under contact flight conditions.

Remember–Since the aircraft is operating in the air, the actual altitude of the air in which the flight is attempted must be considered.

Example: If an aircraft with a service ceiling of 10,000 ft. is flown from a field, actual altitude 6,000 ft. plus 107° F. temperature, the pilot, in effect, is attempting take-off at operating altitude which is the service ceiling of the aircraft. This is obviously bad judgment.

Remember–any increase in operating altitude requires a relative increase in take-off and landing runway length.

LEARN TO USE THIS CHART POST IN PLANE

Operational altitude is the calculated altitude of the air at which the aircraft is flown. Aircraft operation, as a result, may be at an altitude greater or less than the actual altitude above Sea Level.

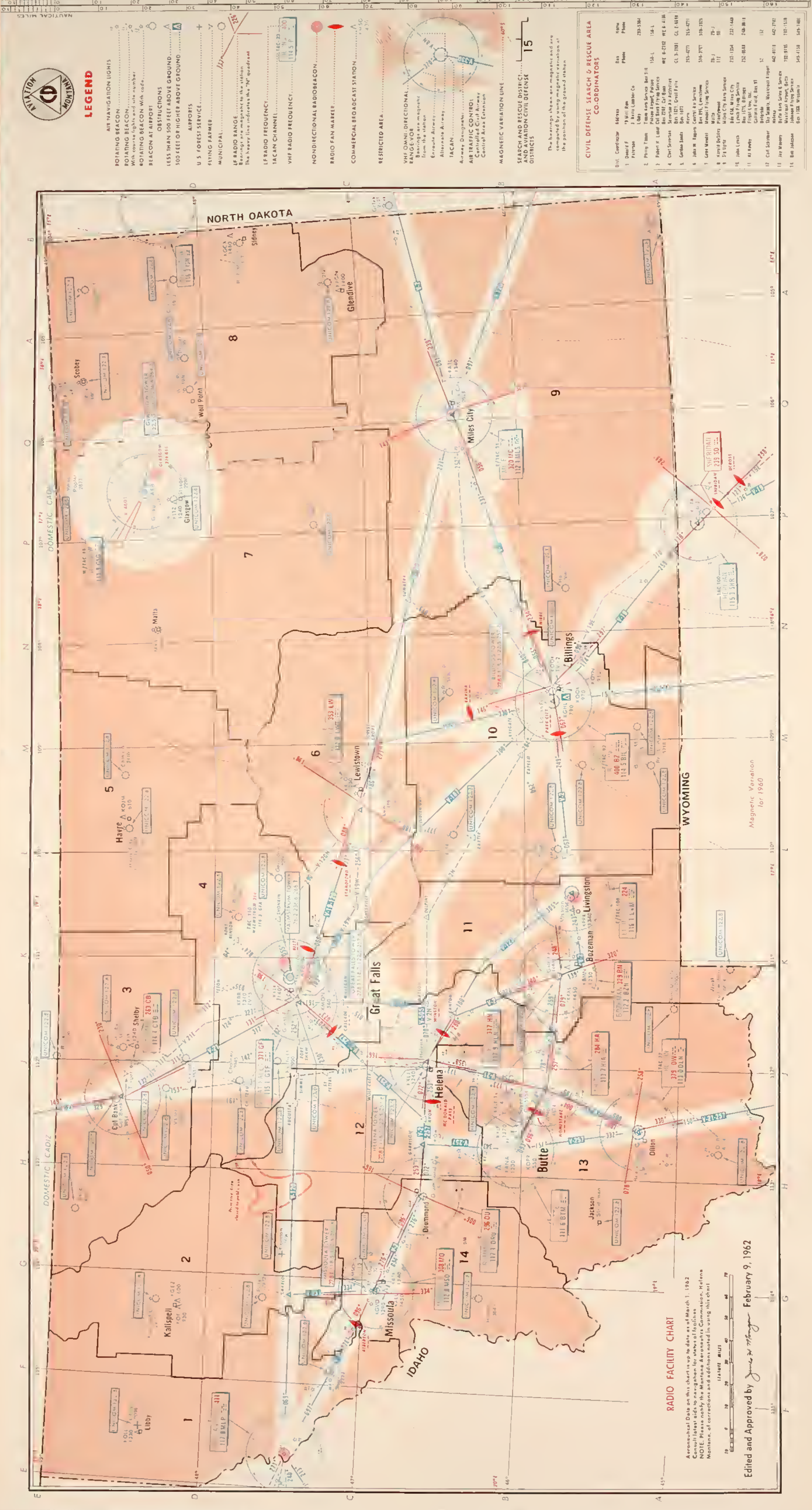
MOUNTAIN FLYING

Take off down hill on runways and land up hill. Grade is a more important factor than wind. If the wind is strong and unfavorable for take-off stay on the ground.

Remember that temperature and elevation materially affect your take-off run, landing roll, and performance of your airplane.

Don't fly on hot days and keep away from thunderstorms.

Montana offers recreation and scenic beauty in the mountain areas unsurpassed by any other place on earth. Flying in the mountains is practical and safe if the pilot knows the limitations of his airplane and himself and uses common horse sense or good judgment.



Montana Airport Directory

AIRPORT DIRECTORY LEGEND OF FACILITIES
Longest Runway
(Example) (56)–5600 Feet
(H) Hard Surfaced
(R) Radio Communications
(L) Lighted Airport
(F) Gasoline Available
(S) Hangar Storage
(A) Active Airport
(M) Mechanic Available
(E) Restaurant
(T) Transportation
(U) Unicom–122.8 or 123.0
(W) U.S. Weather Bureau Information

Map Produced by
MONTANA AERONAUTICS COMMISSION
HELENA MONTANA
Area Code 406
442-3260 Ext 281 Ext 282
Night Phone 442-8160

Address Alzada, Montana
Name Foster Airport
Owner Marlon Foster
Elevation 3340' lat. 45° 02' long. 104° 24' 45"
Runways E/W; NNW/SSE
Facilities (25) (F) (E) (U)
Operator Marlon Foster and Sheldon Air Service

Address Babb, Montana
Name Babb Airport
Owner MONTANA AERONAUTICS COMMISSION
Elevation 4500'; lat. 48° 51' 06", long. 113° 25' 30"
Runways NNW/SSE
Facilities (40) (E) (U)

Address Baker, Montana
Name Baker Municipal
Owner City of Baker
Manager J.B. Bethel
Elevation 2990', lat. 46° 21' 50" long. 104° 15' 00"
Runways N/S, E/W, NW/SE
Facilities (33) (H) (L) (F) (S) (A) (M) (T)
Operator Bethel Aviation

Name Basin Creek U.S.F.S.
Owner U.S. Forest Service
Manager District Forest Ranger
Elevation 5000', lat. 47° 25' 00", long. 113° 06' 15"
Runways ESE/WNW
Facilities (21) (CLOSED TO PUBLIC)

Name Big Prairie U.S.F.S.
Owner U.S. Forest Service
Manager District Forest Ranger
Elevation 4650', lat. 47° 50' 45", long. 113° 14' 00"
Runways WNW/ESE
Facilities (26) (CLOSED TO PUBLIC)

Address Big Sandy, Montana
Name Big Sandy Airport
Owner City & Chouteau County
Elevation 2700'; lat. 48° 09' 45", long. 110° 06' 45"
Runways NNW/SSE WSW/ENE
Facilities (25)

Address Big Timber, Montana
Name Big Timber
Owner City and Sweet Grass County
Manager Walter E. Hullman
Elevation 4493', lat 45° 48' 15"; long. 109° 58' 45"
Runways N/S, E/W, NE/SW
Facilities (50) (L) (F) (A) (T) (U)
Operator Sky Flight, Inc.

Address Billings, Montana
Name Logan Field
Owner City
Manager Kenneth Rolle
Elevation 3600', lat. 45° 48' 00", long. 108° 32' 30"
Runways N/S, NE/SW, NW/SE
Facilities (86) (H) (R) (L) (F) (S) (A) (M) (E) (T) (U) (W)
Operator Bartley Aviation
Operator Gillis Aviation
Operator Gillis Flying Service
Operator Herrod Aviation Co.
Operator Hollmans Custom Flight Service
Operator Lynch Flying Service
Operator Montana Aircraft Co.
Operator Elcon Radio

Name Black Bear U.S.F.S.
Owner U.S. Forest Service
Manager District Forest Ranger
Elevation 4200, lat. 47° 43' 50" long. 115° 22' 30"
Runways NNW/SSE
Facilities (22) (CLOSED TO PUBLIC)

Address Bozeman, Montana
Name Gallatin Field
Owner City and Gallatin County
Manager Ed Iverson
Elevation 4461'; lat. 45° 46' 49"; long. 111° 09' 16"
Runways N/S, NW/SE, NE/SW, E/W
Facilities (62) (H) (R) (L) (F) (S) (A) (M) (E) (T) (U) (W)
Operator Flightline, Inc.
Operator Gallatin Flying Service

Address Brady, Montana
Name Woods Airport
Owner Ray Woods
Elevation 3350', lat. 48° 03' 45", long. 111° 20' 00"
Runways E/W
Facilities (24) (F) (M)
Operator Woods Flying Service

Address Bridger, Montana
Name Bridger Municipal Airport
Owner City and Carbon County
Manager Gordon Andersen
Elevation 3720' lat. 45° 17' 30"; long. 108° 55' 30"
Runways N/S
Facilities (28) (F) (S) (E) (U)

Address Browning, Montana
Name Starr Browning Airport
Owner MONTANA AERONAUTICS COMMISSION
Elevation 4650', lat. 48° 36' long. 113° 04'
Runways ENE/WSW
Facilities (40)

Address Butte, Montana
Name Silver Bow County Airport
Owner Silver Bow County
Elevation 5554', lat. 45° 57', long. 112° 50'
Runways NE/SW, NNW/SSE, NW/SE
Facilities (68) (H) (R) (L) (F) (S) (A) (M) (T) (U) (W)
Operator Butte Aero Sales & Service

Address Carter, Montana
Name Carter Airport
Owner Chouteau County
Elevation 3000', lat. 47° 46' 45", long. 110° 58' 50"
Runways E/W
Facilities (25)

Address Cascade, Montana
Name Gordon
Owner Bob Gordon
Elevation 3580'; lat. 47° 16' 15"; long. 111° 43' 15"
Runways NW/SE, NE/SW; WNW/ESE, ENE/WSW
Facilities (25)

Address Chester, Montana
Name Liberty County Airport
Owner Liberty County
Manager Charles Helmbrecht
Elevation 3167'; lat. 48° 30' 15"; long. 110° 59' 00"
Runways E/W
Facilities (34) (H) (L) (F) (S) (A) (M)
Operator Chester Aviation

Address Chinook, Montana
Name Chinook Municipal
Owner Blaine County
Manager Edgar Oble
Elevation 2410', lat. 48° 35' 15", long. 109° 14' 30"
Runways E/W
Facilities (25) (H) (F) (A) (U)
Operator Oble Flying Service

Address Choteau, Montana
Name Choteau Municipal
Owner City and Teton County
Manager John Nordhagen
Elevation 3945 lat. 47° 49' 30" long. 112° 09' 45"
Runways NE/SW, N/S
Facilities (27) (L) (F) (S) (A) (M) (U)
Operator Choteau Flying Service

Address Circle, Montana
Name McCone County Airport
Owner McCone County
Manager Orville Lockrem
Elevation 2424 lat. 47° 25' 00" long. 105° 33' 30"
Runways NW/SE, NE/SW
Facilities (26) (L) (F)

Address Clinton, Montana
Name Elliott Field
Owner Montana Aeronautics Commission
Manager Bruce Elliott
Elevation 3540; lat. 46° 43' 00" long. 113° 59' 22"
Runways E/W
Facilities (40) (E) (L)
Operator Rock Creek Lodge

Address Columbus, Montana
Name Columbus Municipal
Owner City
Manager Gil Wollerman
Elevation 3575'; lat. 45° 37' 45", long. 109° 15' 00"
Runways E/W
Facilities (27) (H) (F) (A) (E) (L) (U)
Operator Columbus Flying Service

Address Condon, Montana
Name Condon U.S.F.S.
Owner U.S. Forest Service
Manager District Forest Ranger
Elevation 3690', lat. 47° 32' 30", long. 113° 42' 50"
Runways NNW/SSE
Facilities (27) (U)

Address Connor, Montana
Name Shook Mountain Airport
Owner Roy Shook
Elevation 4233', lat. 45° 51' 00", long. 114° 13' 00"
Runways NNE/SSW
Facilities (45) (L) (F)

Address Conrad, Montana
Name Conrad Airport
Owner Pondera County
Manager Kenneth Memurich
Elevation 3537', lat. 48° 10' 10", long. 111° 58' 15"
Runways ENE/WSW, NW/SE
Facilities (36) (H) (L) (F) (S) (A) (M) (T) (U)
Operator Robert Lonnevik
Operator Pondera Flying Service

Address Culbertson, Montana
Name Culbertson Airport
Owner City and Roosevelt County
Manager John Lab
Elevation 1960, lat. 48° 09' 15", long. 104° 30' 15"
Runways E/W
Facilities (26) (L) (A) (M) (U) (E)
Operator Modern Aire Flight Service

Address Cut Bank, Montana
Name Cut Bank Airport
Owner City and Glacier County
Manager Bill Chambers
Elevation 3854', lat. 48° 36' 50", long. 112° 22' 15"
Runways NE/SW NW/SE
Facilities (62) (H) (R) (L) (F) (S) (A) (M) (E) (T) (U) (W)
Operator Cut Bank Flying Service
Operator Oien Aviation

Address Deer Lodge, Montana
Name Deer Lodge Airport
Owner City and Powell County
Elevation 4700', lat. 46° 23' 30", long. 112° 44' 00"
Runways E/W, NE/SW, NW/SE
Facilities (38)

Address Dell, Montana
Name Dell Flight Strip
Owner MONTANA AERONAUTICS COMMISSION
Elevation 6114' lat. 44° 44' 00", long. 112° 45' 00"
Runways NW/SE
Facilities (70) (H) (L) (U)

Address Denton, Montana
Name Denton Airport
Owner City and Fergus County
Manager Ronald L. Field
Elevation 3850', lat. 47° 17' 45", long. 109° 59' 15"
Runways N/S, E/W
Facilities (26) (F) (S) (M)
Operator Denton Flying Service

Address Dillon, Montana
Name Beaverhead County Airport
Owner Beaverhead County
Manager Cliff Owens
Elevation 5238, lat. 45° 15', long. 112° 33'
Runways N/S, NE/SW, E/W
Facilities (40) (H) (R) (L) (F) (S) (A) (M) (T) (W)
Operator Hanks Flying Service

Address Drummond, Montana
Name Drummond Airport
Owner Granite County
Manager Lewis Hill
Elevation 4245 lat. 46° 37' 15", long. 113° 12' 00"
Runways WNW/ESE
Facilities (26) (R) (L) (F) (W)

Address Dutton, Montana
Name Dutton Airport
Owner City and Teton County
Elevation 3712', lat. 47° 51' 00", long. 111° 41' 00"
Runways N/S
Facilities (52)
Operator Fox Flying Service
Operator Rise Flying Service

Name East Poplar Airport
Owner Daniels County
Elevation 2473'; lat. 49° 00' 00", long. 105° 25' 00"
Runways E/W, N/S
Facilities (33) (U)
Operator U.S. and Canadian Customs

Address Ekalaka, Montana
Name Ekalaka Airport
Owner Carter County
Elevation 3430', lat. 45° 52' 45", long. 104° 31' 30"
Runways NW/SE
Facilities (31)

Address Ennis, Montana
Name Sportsman's Field
Owner Otis Crooker
Elevation 4985'; lat. 45° 21', long. 111° 44
Runways NE/SW
Facilities (36) (F) (E) (L)
Operator Sport Flight, Inc.

Address Eureka, Montana
Name Eureka Municipal
Owner City
Manager Wm. L. Fowler
Elevation 2680'; lat. 48° 55', long. 115° 03' 15"
Runways NNW/SSE
Facilities (30) (L) (F)

Address Fairfield, Montana
Name Fairfield Airport
Owner City
Manager Roy Meyer
Elevation 3990', lat. 47° 37' 45", long. 111° 59' 00"
Runways NNE/SSW, E/W
Facilities (36) (U)

Address Fallon, Montana
Name Fallon Airport
Elevation 2225', lat. 46° 49' 45", long. 105° 07' 45"
Runways NW/SE; E/W, N/S
Facilities (27)

Address Forsyth, Montana
Name Forsyth Airport
Owner Rosebud County
Manager George Lillis
Elevation 2728', lat. 46° 16' 30" long. 106° 36' 45"
Runways E/W, NW/SE NE/SW
Facilities (25) (L) (F) (S) (L)

Address Fort Benton
Name Fort Benton Airport
Owner City and Chouteau County
Manager Wm. Lope
Elevation 2886, lat. 47° 50' 15"; long. 110° 38' 45"
Runways NE/SW, NNE/SSW, E/W
Facilities (36) (H) (L) (F) (S) (A) (M) (L) (U)
Operator Benton Flying Service

Address Fort Peck, Montana
Name Fort Peck Airport
Owner U.S. Government
Manager Charles J. Johnston
Elevation 2294, lat. 48° 00' 45" long. 106° 27' 00"
Runways NW/SE, ENE/WSW N/S
Facilities (33)
Operator Fort Peck Flying Service

Address Gardiner, Montana
Name Gardiner Airport
Owner Park County
Manager Clessen M. Hayes
Elevation 5300', lat. 45° 05' 00", long. 110° 44' 45"
Runways WNW/ESE
Facilities (36)

Name Gates Park
Owner U. S. Forest Service
Manager District Forest Ranger
Elevation 5350, lat. 47° 47' 30", long. 112° 57' 00"
Runways N/S
Facilities (26) (CLOSED TO PUBLIC)

Address Geraldine, Montana
Name Geraldine Airport
Owner City and Chouteau County
Manager John Goldhahn, Jr.
Elevation 3200', lat. 47° 35' 45", long. 110° 15' 45"
Runways E/W
Facilities (25) (F) (A) (U)
Operator Cartwright Flying Service

Address Glasgow, Montana
Name Glasgow Municipal
Owner City
Manager Wilbur Merlon
Elevation 2298 lat. 48° 13' 00", long. 106° 37' 00"
Runways NW/SE, E/W
Facilities (81) (H) (L) (F) (S) (A) (M) (L) (U) (W)
Operator Glasgow Air Service

Address Glendive, Montana
Name Glendive Airport
Owner City
Manager Art Soare
Elevation 2128', lat. 47° 08'; long. 104° 40' 45"
Runways NW/SE, NE/SW
Facilities (45) (H) (L) (F) (S) (A) (M) (E) (T) (U)
Operator Glendive Flying Service

Address Great Falls, Montana
Name Great Falls International
Owner City
Manager Tom Palmer
Elevation 3671', lat. 47° 29' 00" long. 111° 22' 00"
Runways NE/SW, E/W, N/S NW/SE
Facilities (77) (H) (R) (L) (F) (S) (A) (M) (E) (T) (U) (W)
Operator Mustang Aviation
Operator Severson Air Activities
Operator Skyway Flying Service

Address Hamilton, Montana
Name Hamilton Airport
Owner Ravalli County
Manager Les Melsner
Elevation 3640', lat. 46° 15' 15", long. 114° 07' 30"
Runways N/S
Facilities (38) (L) (F) (A) (M) (U)
Operator Custom-Aire Flying Service

Address Hardin, Montana
Name Fairgrounds Airport
Owner Big Horn County
Manager Ray Zelke
Elevation 2911', lat. 45° 43' 30", long. 107° 36' 00"
Runways NE/SW, E/W
Facilities (23) (H) (F) (S) (A) (M) (E) (T) (U)
Operator Boles Aviation

Address Hardin, Montana
Name Hardin Airport
Owner Big Horn County
Manager Ray Zelke
Elevation 3040, lat. 45° 43' 30", long. 107° 33' 45"
Runways ESE/WNW, N/S
Facilities (35)

Address Harlem, Montana
Name Harlem Airport
Owner Blaine County
Manager Guy Riggin
Elevation 2560' lat. 48° 34, long. 108° 46
Runways NW/SE N/S, E/W
Facilities (27) (H) (L) (S) (A)

Address Harlowton, Montana
Name Harlowton Municipal
Owner City
Manager Merlin Sorenson
Elevation 4214; lat. 46° 27' 15"; long. 109° 51' 15"
Runways E/W NW/SE, N/S
Facilities (29) (L) (F) (S) (A) (T) (U)

Address Havre, Montana
Name Havre City County
Owner City and Hill County
Manager Harold Ebaugh
Elevation 2589, lat. 48° 32' 30" long. 109° 46' 00"
Runways NE/SW, E/W NW/SE
Facilities (47) (H) (L) (F) (S) (A) (M) (T) (U) (W)
Operator Hensley Flying Service

Address Helena, Montana
Name Helena Airport
Owner City, Lewis & Clark County
Manager Hugh P. Kelleher
Elevation 3873, lat. 46° 36' 30", long. 111° 59' 30"
Runways ENE/WSW, NW/SE, WNW/ESE
Facilities (70) (H) (R) (L) (F) (S) (A) (M) (E) (T) (U) (W)
Operator Morrison Flying Service
Operator Sky Supply
Headquarters of the MONTANA AERONAUTICS COMMISSION

Address Hinsdale, Montana
Name Hinsdale Airport
Owner Valley County
Manager R. E. Hillman, Jr.
Elevation 2180 lat. 48° 23, long. 107° 04' 47"
Runways NW/SE, N/S
Facilities (21)

Name Holbrook U.S.F.S.
Owner U. S. Forest Service
Manager District Forest Range
Elevation 4575, lat. 47° 34' 15" long. 113° 18' 45"
Runways NE/SW
Facilities (20) (CLOSED TO PUBLIC)

Address Hot Springs, Montana
Name Hot Springs Airport
Owner Sanders County
Manager Grant E. Preston
Elevation 2763', lat. 47° 36' 45" long. 114° 36' 45"
Runways ENE/WSW
Facilities (23) (L) (F)

Address Jackson, Montana
Name Hirschy Airport
Owner Beaverhead County
Elevation 6400 lat. 45° 26', long. 113° 25
Runways ENE/WSW
Facilities (30) (F) (S) (M) (E) (L) (U)
Operator Diamond Bar Inn

Address Jordan, Montana
Name Jordan Airport
Owner City and Garfield County
Manager Milton P. Schrenl
Elevation 2637, lat. 47° 20', long. 106° 56' 15"
Runways WNW/ESE, N/S
Facilities (56) (F) (U)

Address Kalispell, Montana
Name Flathead County Airport
Owner County
Manager Ray Hall
Elevation 2971', lat. 48° 18' long. 114° 16
Runways NE/SW, NW/SE E/W
Facilities (55) (H) (L) (F) (A) (M) (T) (U) (W)
Operator Glacier View Skyways Inc.

Address Laurel, Montana
Name Laurel Municipal Airport
Owner City
Manager Wayne Willis
Elevation 3500', lat 45° 42' 05" long. 108° 49'
Runways NW/SE, NE/SW, E/W
Facilities (25) (H) (F) (A) (T)

Address Lewistown, Montana
Name Lewistown Municipal Airport
Owner City and Fergus County
Manager Dick Langford
Elevation 4197', lat. 47° 03' 15" long. 109° 28' 50"
Runways NE/SW, E/W, NW/SE
Facilities (56) (H) (R) (L) (F) (S) (A) (M) (T) (W)
Operator Central Air Service
Operator Montana Mooney, Inc.

Address Libby, Montana
Name Libby U.S.F.S.
Owner U. S. Forest Service
Manager George Summerside
Elevation 2096', lat. 48° 24' long. 115° 32
Runways NE/SW
Facilities (27) (U)

Address Livingston, Montana
Name Mission Field
Owner City and Park County
Manager Paul Lilleman
Elevation 4656'; lat. 45° 42', long. 110° 26' 30"
Runways NE/SW, E/W; N/S
Facilities (40) (H) (R) (L) (F) (S) (A) (M) (T) (U) (W)
Operator Livingston Flying Service

Address Malta, Montana
Name Malta Airport
Owner City and Phillips County
Manager E. L. Mendel
Elevation 2280, lat. 48° 21', long. 107° 55' 50"
Runways E/W, NW/SE
Facilities (30) (H) (L) (F) (S) (A) (M) (T)
Operator Malta Flying Service

Name Meadow Creek U.S.F.S.
Owner U. S. Forest Service
Manager District Ranger
Elevation 3975', lat. 47° 50' 45" long. 113° 24' 50"
Runways NNW/SSE
Facilities (27)

Address Medicine Lake, Montana
Name Medicine Lake
Owner City and Sheridan County
Manager Ervin Stringer
Elevation 1990 lat. 48° 30, long. 104° 29' 30"
Runways N/S E/W
Facilities (25)

Address Miles City, Montana
Name Miles City Municipal
Owner City
Manager Sig Ugrin
Elevation 2628' lat. 46° 25' 45", long. 105° 52' 30"
Runways NE/SW, NW/SE
Facilities (56) (H) (R) (L) (F) (S) (A) (M) (E) (T) (W)
Operator Miles City Aero Service

Address Missoula, Montana
Name Missoula County Airport
Owner Missoula County
Manager George G. Burkhart
Elevation 3203', lat. 46° 54' 45", long. 114° 05' 15
Runways E/W NW/SE, N/S NE/SW
Facilities (70) (H) (R) (L) (F) (S) (A) (M) (E) (T) (U) (W)
Operator Johnson Flying Service
Operator Missoula Aerial Service

Address Moore, Montana
Name Moore Airport (Private)
Owner R. E. Davis
Elevation 4100, lat. 46° 58' 45", long. 109° 40' 30"
Runways N/S, E/W
Facilities (26)

Address Nashua, Montana
Name Nashua Airport
Owner Lydia Nichol
Manager Wm. Whisennand
Elevation 2070', lat. 48° 08' 00", long. 106° 20' 45"
Runways E/W
Facilities (28)

Address Opheim, Montana
Name Opheim Municipal
Owner City and Valley County
Manager Ward Bishop
Elevation 3264', lat. 48° 51' 45"; long. 106° 25' 5"
Runways N/S, NE/SW, NW/SE
Facilities (51) (L)

Address Plains, Montana
Name Plains Airport
Owner Sanders County
Manager Eric Bryce
Elevation 2460', lat. 47° 28' 15", long. 114° 54' 30"
Runways NW/SE E/W
Facilities (29) (L) (F)

Address Plentywood, Montana
Name Sher Wood Airport
Owner City and Sheridan County
Manager Harold DeSilva
Elevation 2250, lat. 48° 47, long. 104° 52
Runways NW/SE, E/W NE/SW N/S
Facilities (32) (H) (F) (A) (L) (U)
Operator Plentywood Flying Service

Address Polson, Montana
Name Polson Airport
Owner City and Lake County
Manager Phillip E. Timm
Elevation 2932', lat. 47° 41' 50", long. 114° 11' 15"
Runways NE/SW
Facilities (25) (L) (F) (S) (A) (M) (E) (L) (U)
Operator Timm Aero Service

Address Poplar, Montana
Name Poplar Airport
Owner City and U. S. Government
Manager Jess Sisson
Elevation 2000', lat. 48° 07', long. 105° 11' 15"
Runways E/W, NE/SW
Facilities (42) (L) (F) (A) (U)
Operator Poplar Flying Service
Operator Modern Aire Flight Service

Address Red Lodge, Montana
Name Red Lodge Airport
Owner City and Carbon County
Manager A. J. Peteneude
Elevation 5718' lat. 45° 11' 15", long. 109° 16
Runways N/S; NE/SW, NNW/SSE
Facilities (40) (H) (L) (E) (A) (M) (T) (U)
Operator Red Lodge Airways

Address Reserve, Montana
Name Reserve Airport
Elevation 1970' lat. 48° 36' long. 104° 28
Runways N/S NW/SE, NE/SW
Facilities (28) (F)
Operator Reserve Flying Club

Address Ronan, Montana
Name Ronan Airport
Owner City and Lake County
Manager Milo Jensen
Elevation 3089', lat. 47° 34' 15", long. 114° 05' 45"
Runways NE/SW
Facilities (32) (L) (F)

Address Roundup, Montana
Name Roundup Airport
Owner City and Musselshell County
Manager Rolen Albright
Elevation 3490', lat. 46° 28' 15", long. 108° 32' 45"
Runways NE/SW, E/W, N/S
Facilities (40) (H) (L) (F) (S) (A) (M) (T) (U)
Operator Albright Flying Service

Address St. Ignatius
Name St. Ignatius Airport
Owner City and Lake County
Elevation 2990 lat. 47° 19' 45", long. 114° 04' 45"
Runways WNW/ESE
Facilities (26) (L) (F) (S)

Name Schafer U.S.F.S.
Owner U. S. Forest Service
Manager District Forest Ranger
Elevation 4855, lat. 48° 05' 15", long. 113° 15
Runways E/W
Facilities (22)

Address Scobey, Montana
Name Scobey Municipal Airport
Owner City and Daniels County
Elevation 2460, lat. 48° 48' long. 105° 26' 30"
Runways NW/SE, N/S, E/W
Facilities (28) (H) (L) (F) (S) (A) (U)

Address Seeley Lake, Montana
Name Seeley Lake Airstrip
Owner MONTANA AERONAUTICS COMMISSION
Elevation 4150'; lat. 47° 14' 20", long. 113° 33' 45"
Runways NW/SE
Facilities (20)

Address Shelby, Montana
Name Shelby Airport
Owner City and Toole County
Manager Don Coons
Elevation 3425'; lat. 48° 32' 30", long. 111° 52' 15"
Runways NE/SW, NW/SE
Facilities (37) (H) (L) (F) (S) (A) (M) (T) (U)
Operator Shelby Flying Service

Address Sidney, Montana
Name Richland County Airport
Owner Richland County
Manager John O. Burns
Elevation 1977; lat. 47° 42' 30", long. 104° 11'
Runways NW/SE
Facilities (42) (H) (L) (F) (S) (A) (M) (T)
Operator Burns Flying Service

Name Spotted Bear U.S.F.S.
Owner U. S. Forest Service
Manager District Forest Ranger
Elevation 3800', lat. 47° 57' 30", long. 113° 33' 50"
Runways N/S
Facilities (22) (F)

Address Stanford, Montana
Name Stanford Airport
Owner City & Judith Basin County
Manager Woodrow Smith
Elevation 4285, lat. 47° 08' 45", long. 110° 13' 45"
Runways E/W, NW/SE
Facilities (24) (F) (E) (M)
Operator Mendel Flying Service

Address Stevensville, Montana
Name Stevensville Airport
Owner Ravalli County
Elevation 3620'; lat. 46° 31' 30", long. 114° 03
Runways NW/SE N/S
Facilities (36) EMERGENCY USE ONLY

Address Sunburst, Montana
Name Sunburst Airport
Owner City and Toole County
Manager S. C. Nelson
Elevation 3399 lat. 48° 55' 30" long. 111° 55' 15"
Runways ENE/WSW N/S
Facilities (26)

Address Superior, Montana
Name Superior Airport
Owner Mineral County
Elevation 2777' lat. 47° 10' 30", long. 114° 51
Runways NW/SE
Facilities (34) (H) (L) (F) (A) (U)

Address Sweetgrass, Montana
Name Ross International Airport
Owner MONTANA AERONAUTICS COMMISSION
Elevation 3200 lat. 49° 00' 00" long. 111° 57' 25"
Runways E/W
Facilities (30) (A) (E) (F) (U) Port of Entry
Offices of U.S. & CANADIAN CUSTOMS

Address Terry, Montana
Name Patterson Field
Owner Prairie County
Elevation 2260, lat. 46° 46' 45", long. 105° 18' 15"
Runways WNW/ESE E/W
Facilities (26)

Address Thompson Falls, Montana
Name Thompson Falls Airport
Owner Sanders County
Manager M. C. Sutherland
Elevation 2460, lat. 47° 34' 50", long. 115° 17' 00"
Runways E/W
Facilities (24) (L)

Address Three Forks, Montana
Name Three Forks Airport
Owner City & Gallatin County
Manager Howard Jeglum
Elevation 4060', lat. 45° 52' 45" long. 111° 34' 00"
Runways NE/SW N/S
Facilities (34)
Operator Fairhurst Flying Service

Name Tiber Dam
Owner MONTANA AERONAUTICS COMMISSION
Elevation 3012 lat. 48° 19' long. 111° 07'
Runways NW/SE
Facilities (30) (F) (A) State Park

Address Townsend, Montana
Name Canyon Ferry Airstrip
Owner MONTANA AERONAUTICS COMMISSION
Elevation 4000, lat. 46° 25' long. 111° 34
Runways N/S
Facilities (36)

Address Townsend, Montana
Name Townsend Airport
Owner City
Manager Ray Ward
Elevation 4000, lat. 46° 20, long. 111° 28' 30"
Runways N/S
Facilities (40) (H) (E)

Address Troy, Montana
Name Troy U.S.F.S.
Owner U. S. Forest Service
Manager District Forest Ranger
Elevation 2017, lat. 48° 29' 00" long. 115° 54' 00"
Runways NNW/SSE
Facilities (26)

Address Turner, Montana
Name Turner Airport
Owner Blaine County
Manager Pat Doyle
Elevation 3040, lat. 48° 51' 15" long. 108° 24' 20"
Runways NW/SE, WSW/ENE
Facilities (28) (L) (M)
Operator Pat Doyle
Operator Knut Sveen

Address Twin Bridges, Montana
Name Twin Bridges Airport
Owner City and Madison County
Manager John Stevens
Elevation 4772', lat. 45° 32', long. 112° 18' 30"
Runways E/W, N/S NW/SE
Facilities (34) (F)

Address Valier, Montana
Name Valier Airport
Owner City
Manager O. E. Lohse
Elevation 3820', lat. 48° 18'; long. 112° 15
Runways E/W, NW/SE, NE/SW
Facilities (55) (F) (A) (T) (U)
Operator Lohse Flying Service

Address Westby, Montana
Name Westby Airport
Owner Westby Flying Club
Elevation 2100', lat. 48° 48' 45", long. 104° 01' 45"
Runways E/W, N/S NW/SE
Facilities (25) (F)

Address West Poplar, Montana
Name West Poplar Border Airstrip
Manager Valley Hangar, MPA
Elevation 2873', lat. 49° 00' long. 106° 24' 50"
Runways NW/SE
Facilities (42) (A) (U)
Offices of U. S. and Canadian Customs

Address West Yellowstone, Montana
Name West Yellowstone Airport
Owner Gallatin County
Elevation 6654', lat. 44° 39' 30"; long. 111° 07' 45"
Runways ENE/WSW
Facilities (60) (F) (S) (A) (E) (T) (U)
Operator Flightline, Inc. (Summer only)

Address Whitehall, Montana
Name Whitehall Airport (EAA Site SIC GIF)
Owner F. W. Haecker
Elevation 4674', lat. 45° 48' 30" long. 112° 12
Runway N/S E/W
Facilities (59) (F) (L)

Address White Sulphur Springs, Montana
Name White Sulphur Springs Airport
Owner MONTANA AERONAUTICS COMMISSION
Elevation 5060, lat. 46° 50', long. 110° 54' 45"
Runways NE/SW, E/W
Facilities (50)

Address Winifred, Montana
Name Winifred Airport
Owner City
Manager I. O. Asbjornson
Elevation 3220', lat. 47° 33', long. 109° 23
Runways NW/SE
Facilities (26) (F) (A) (E) (T) (L)

Address Wisdom, Montana
Name Wisdom Airport
Owner Beaverhead County
Elevation Bruce Helming
Manager 6126', lat. 45° 35' 15" long. 113° 27' 45"
Runways NE/SW
Facilities (25) (F)

Address Wolf Creek, Montana
Name Ox Bow Airstrip
Owner MONTANA AERONAUTICS COMMISSION
Manager Irvin H. Bieke
Elevation 3590' lat. 46° 57' long. 111° 56
Runways NW/SE
Facilities (43)

Address Wolf Point, Montana
Name Anderson Airstrip
Owner Harold Anderson
Elevation 2040'; lat. 48° 06' long. 105° 59
Runways E/W
Facilities (25) (L) (F) (M) (E) (L)
Operator Anderson Flying Service

Address Wolf Point, Montana
Name Wolf Point Municipal
Owner City and Roosevelt County
Manager Joe Engel
Elevation 1980', lat. 48° 05' 30" long. 105° 34' 30"
Runways NW/SE
Facilities (40) (H) (L) (F) (S) (A) (M) (T) (U)
Operator Point Aero Service

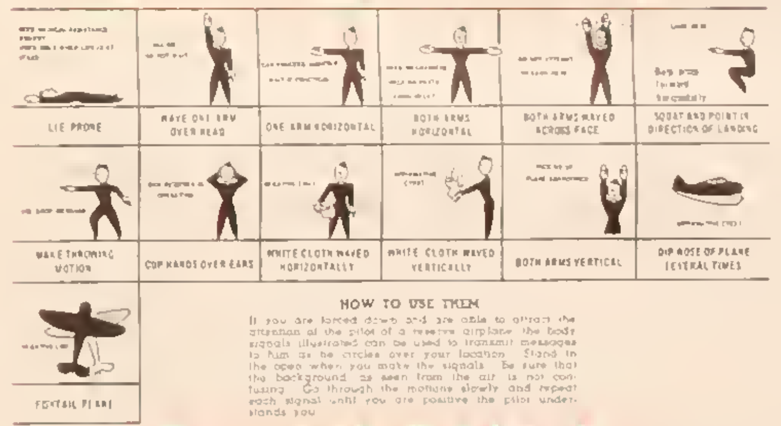
FLYING FARMER AND RANCHER AIRPORTS

The Military grid reference indicates the south west corner of the 1° area in which the airport is located. Example Aaberge, Galata JD.

1. Locate line labeled J at the top or bottom margin of sheet
2. Locate line labeled D at right or left margin of sheet
3. The intersection of these lines is the southwest corner of the 1° area in which Aaberge is located

Airport	Town	Military Grid Reference
Aaberge	Galata	JD
Allen	Ryegate	JB
Alley	Joplin	KD
Alzheimer Bros.	Collins	JC
Anderson	Conrad	JD
Anderson	Cut Bank	HD
Anderson	Geraldine	KC
Anderson	Rudyard	KD
Anderson, O.	Rudyard	KD
Anderson, E.	Joplin	KD
Arnold	Broadview	MA
Arnott	Utica	KB
Aspevig	Rudyard	KD
Asvig	Kremlin	KD
Bainville	Bainville	AD
Baird	Peerless	QD
Baker	Lustre	QD
Baldwin	Sunburst	JD
Baldwin, J.	Ismay	OB
Bandel	Floweree	JC
Barrett	Cascade	JC
Basler	Harlowton	JB
Bayers Ranch	Twin Bridges	HA
Beacon Field	Huntley	MA
Bear Spring	Denton	JC
Bechard	Square Butte	KC
Ben Frost	Eureka	FD
Benjamin	Shelby	JD
Benjamin N.	Devon	JD
Berg	Lennep	KB
Biddle Land & Cattle Co.	Biddle	OA
Bird	Leroy	JC
Blomquist	Dillon	HA
Bones Bros.	Birney	PA
Breneman	Moore	JD
Brewington	Judith Gap	JB
Briggs	Dell	HA
Broadus	Broadus	QA
Brogan	Wilsall	KA
Brown	Frazer	PC
Brown, M. J.	Lodge Grass	NA
Brownfield, Ben	Hammond	AA
Brownfield, Earl	Hammond	AA
Browning	Browning	GD
Bummer	Scobey	QD
Butcher	Winifred	JC
Butcher, E.	Winifred	JC
Cameron	Martinsdale	KB
'Channels'	Ennis	JA
Choate	Stacey	PA
Christensen	Dagmar	AD
Christensen	Scobey	QD
Cimrhakl	Roy	MC
Clearwater	Ovando	GC
Climbing Arrow	Three Forks	JA
Cloverdale	Redstone	AD
Cockrell	Galata	JD
Coldwell	Harby	PC
Consolidated Cattle Co. (3C) Ranch	Browning	GD
Cooper	Huntley	MA
Corbett	Choteau	HC
Cornwell	Forsyth	PB
Craig	Opheim	PD
Crockett	Great Falls	JC
Crum	Columbia Falls	FD
Dahl	Lustre	QD
Dann	Watkins	PC
Davies Ranch	Chinook	JD
Davis	Havre	JD
Davis	Peerless	QD
Davis	Pendroy	HD
Davis	Stanford	KC
Diamond Ring Ranch	Terry	QB
Dunlop	Winnett	MB
Dunning	Devon	JD
Dupuis	Polson	FC
Edwards	Harby	PC
Elk Trail Park	Lincoln	HC
Fichert	Lampkin	PD
Faber Cattle Co.	Big Sandy	JD
Feltinger	Bloomfield	AC
Fenger	Galata	JD
Fitzgerald	Collins	JC
Fladager	Peerless	QD
Floyd Ranch	Opheim	PD
Flying C Ranch	Lambert	AC
Fly Inn	Billings	MA
Ford	Winifred	JC
Foster	Alzada	AA
Fraser	Joplin	KD
Frederick	Flaxville	QD
Fuhrman	Opheim	PD
Garber	Ismay	AB
Gaslin	Jordan	PC
Gay	Moorhead	QA
Gerard	Ennis	JA
Gibson	Clyde Park	KA
Goldhahn	Geraldine	KC
Gregg	Bloomfield	AC
Greiman	Intake	AC
Hagen	Shelby	JD
Halverson	Redstone	OD
Hanson	Gildford	KD
Hanson	Scobey	QD
Harbaugh	Jordan	PC
Harchenko	Larslan	PD
Hardenbrook Ranch	Stanford	KC
Harvey	Biddle	OA
Hassler	Nashua	PD
Hauge	Wolf Point	QD
Haugen	Peerless	QD
Hayes	Ridge	AB
Hellinger	Devon	JD
Higgins	Havre	JD
Higgins Bros.	Ringling	KB
Hindereyer	Power	JC
Hirschy	Wisdom	GA
Hogeland	Hogeland	MD
Hokanson	Big Sandy	JD
Holen	Poplar	QD
Hollandsworth	Grady	JD
Holliday Ranch	Martinsdale	KB
Holtz	Floweree	JC
Hope	Big Horn	NB
Hopkins	Ismay	AB
Hotchkiss	Malta	ND
Inbody	Choteau	HC
Inman	Havre	JD
Jacobsen	Froid	AD
Janssen	Coalwood	QA
Jenni	Lewistown	JC
Johansen	Custer	NB
Johnson	Brady	JD
Johnson	Broadview	MB
Johnson	Fairview	AC
Johnson	Leroy	JC
Johnson	Philipsburg	GB
Johnston	Malta	NC
Jones	Scobey	QD
Jones Ranches	Dillon	HA
Judith Gap	Judith Gap	JB
Juedeman Grain Co.	Geraldine	KC
Juedeman, R. F.	Shelby	HD
Jurgens	Montague	KC
Kamppinen	Columbus	LA
Karman Ranch	Custer	NB
Kearns	Brusett	NC
Keirle	Baker	AB
Kelster	Conrad	JD
Kiemele	Havre	KD
Killenbeck	Scobey	QD
Klos	Plevna	AB
Knedlers	Geraldine	KC
Knudson	Poplar	QD
Koch	Brockway	QC
Kolstad	Galata	JD
Konen	Fairfield	JC
Kramer	Cohagen	NB
Kreider	Sand Springs	NC
KRM Ranch	Malta	MD
Krueger, J. K.	Columbus	LA
Krueger, W. K.	Reed Point	LA
Krug	Glendive	AB
Kuecks	Nashua	PD
Kulbeck Bros.	Big Sandy	KD
LaBree	Ismay	AB
Laird Ranch	Ekalaka	AA
Lande	Pryor	MA
Langhus	Melville	KB
Larsen	Reserve	AD
Larson	Sand Springs	NC
Larson, R. C.	Baker	AB
Leland Ranch	Ismay	OB
Lenington	Fort Benton	JD
Lien	Brockton	AD
Lincoln	Gildford	KD
Lindner	Wagner	MD
Lock	Hinsdale	ND
Lonnevik	Conrad	JD
Loring	Loring	ND
Louy	Wolf Point	QC
Ludwig	Fort Benton	JD
Lynes	Sun River	JC
MacLean	Billings	PA
Martin	Brockton	AC
McCrory	Outlook	AD
McKeever	Loma	KD
McKinnon	Westby	AD
McWilliams	Cohagen	PC
Mead	Hysham	NB
Medearis	Ismay	AB
Melby	Molt	MA
Metler	Wilsall	KB
Meyer	Ekalaka	AA
Mikeson	Stanford	KC
Mikkelsen	Lewistown	JB
Miller	Jordan	PC
Millers, Inc.	Lodge Grass	NA
Mittal	Geraldine	JC
Moore Ranch	Two Dot	KB
Morgan	Deer Lodge	HB
Morgan	Niarada	FC
Morse	Simpson	KD
Mortensen	Circle	QC
Mud Lake	Big Fork	GD
Mustard	Denton	JC
N (Bar) Ranch	Forestgrove	MB
Neils Thr. Co.	Libby	ED
Nelson	Frazer	PC
Nelson	Poplar	QD
Nelson	Loston	JB
Nesbit	Philipsburg	GB
Ness	Rudyard	KD
Neubauer	Wolf Point	QC
Nichol	Ledger	JD
Nine Quarter Circle Ranch	Gallatin Gateway	JA
Nordhagen	Westby	AD
Normand	Vida	QC
Nylander	Dodson	MD
Olfert	Frazer	PD
Olson	Cut Bank	HD
Orcutt	Conrad	JD
Orr #1	Cameron	JA
Orr #2	Cameron	JA
Osborne	Galata	JD
Ostby	McCabe	AD
Osterbauer	Gildford	KD
Owen Bros.	Geraldine	KC
Ox Bow Ranch	Wolf Creek	JB
Pacler	Inverness	KD
Patchk	Rudyard	KD
Pestka	Cohagen	PC
Petersen	Andes	AC
Peterson	Chinook	JD
Pluhar	Cohagen	PC
Pope	Lodge Grass	NA
Prevost	Lambert	AC
Putnam	Sidney	AC
Quarter Circle MC Ranch	Polebridge	ED
Ramberg	Inverness	KD
Ratzburg	Ledger	JD
Reeder Co.	Craig	HC
Reimche	Larslan	PD
Richards	Ridgway	AA
Richardson	Scobey	QD
Riggin	Harlem	MD
Rilley	Mill Iron	AA
Rinehart	Kremlin	KD
Rise	Flaxville	AD
Rismon	Havre	JD
Robertson	Jordan	NC
Romein	Chester	KD
Ross	Jordan	PC
Rowland	Geraldine	KC
Ruff	Marsh	AB
Ruffato	Brockton	AD
Rugg	Kirby	PA
Ruggles Ranch	Wolf Point	QD
Rush	Scobey	QD
Ryerson	Avon	HB
Sammons	Cut Bank	HD
Samson	Stanford	KC
Sands Ranch	Havre	KD
Saubak	Lustre	QD
Savage	Sumatra	NB
Schmitz	Medicine Lk.	AD
Schnitzmeier, #1	Havre	JD
Schnitzmeier #2	Havre	JD
Schreckendgust	Florence	FB
Scott Bros.	Oswego	QD
Seifert #1	Valier	HD
Seifert #2	Valier	HD
Seven Up Ranch	Lincoln	HB
Sheehy	Circle	QC
Shellerud	Richland	PD
Shiplet #1	Livingston	KB
Shiplet #2	Livingston	KA
Shumaker	Ismay	AB
Shumaker Jr.	Mildred	OB
Silvan	Big Sandy	JC
Skyburg Ranch	Frazer	PC
Small	Coffee Creek	KC
Smeding	Musselshell	MB
Smith	Denton	JC
Smith	Roundup	MB
Snuffer	Galata	JD
Sondreson	Polebridge	FD
Sorenson	Bozeman	KA
Sorenson	Kremlin	KD
Sorenson, I.	Crane	AC
Speer	Kirby	PA
Steele	Custer	NB
Steinbach Ranch	Wolf Creek	HC
Stensland Ranch	Wolf Point	QD
Stephens	Dutton	JC
Strodtman	Jackson	GA
Stuber	Thoeny	PD
Sult & Co.	Mosby	NC
Sunsted	Antelope	AD
Swan	Turner	MD
Swoboda	Wolf Point	QD
Tanner Bros.	Geraldine	KC
Tanner Bros. Ranch	Geraldine	KC
Tauck Bros.	Ridgway	AA
Tempel	Chester	KD
Tempero	Nibbe	NB
Templeton	Stevensville	FB
Terry	Clyde Park	KA
Thiessen	Lambert	AC
Thomas	Jordan	PC
Thomas, R. O.	Brady	JD
Thompson	Winnett	MB
Tiber Dam	Tiber Dam	JD
Toavs	Wolf Point	QD
Toole	Shelby	JD
Torgerson	Ethridge	HD
Town Bros. Ranch	Malta	NC
Twelen	Baylor	PD
Underdal	Galata	JD
Underdal, C.	Ledger	JD
Underdal, S.	Big Sandy	KD
United Land & Cattle Co.	Big Sandy	JD
Upham	Loma	KD
Vande Sandt	Gildford	KD
Vida	Vida	QC
Vine	Vida	QC
Visocan	Raynesford	KC
Vogel	Kremlin	KD
Wall	Kremlin	KD
Wall	Lustre	QD
Ward	Clyde Park	KA
Watkins Creek Ranch	West Yellowstone	JA
Wegner	Chinook	JD
Welbert	Garryowen	NA
Whisennand	Nashua	PD
Whitewater	Whitewater	ND
Wiggins	Winnett	MB
Wilcox	Rapelje	JB
Williamson	Raynesford	KC
Willson	Fort Benton	KC
Wilsall	Wilsall	KB
Wilson	Savage	AC
Wine Glass	Helmville	HB
Wishman	Geraldine	KC
Wold	Laurel	MA
Wolfe	Chester	KD
Wood	Gildford	KD
Young	Wagner	MD
Youngquist	Lindsay	QC
Zortman	Zortman	MC

EMERGENCY SIGNALS --Ground to Air


LIE PRONE
WAVE ONE ARM OVERHEAD
ONE ARM HORIZONTAL
BOTH ARMS HORIZONTAL
BOTH ARMS WAVED ACROSS FACE
SQUAT AND POINT IN DIRECTION OF LANDING
MAKE THROWING MOTION
CUP HANDS OVER EARS
WHITE CLOTH WAVED HORIZONTALLY
WHITE CLOTH WAVED VERTICALLY
BOTH ARMS VERTICAL
DIP NOSE OF PLANE SEVERAL TIMES
FISHTAIL PLANE

HOW TO USE THEM

If you are forced down and are able to attract the attention of the pilot of a rescue airplane the body signals illustrated can be used to transmit messages to him as he circles over your location. Stand in the open when you make the signals. Be sure that the background, as seen from the air, is not confusing. Go through the motions slowly and repeat each signal until you are positive the pilot understands you.

MORSE CODE and PHONETIC ALPHABET

Alfa .-
Bravo -...
Charlie -.-.
Delta -..
Echo .
Foxtrot ..-.
Golf --.
Hotel ....
India ..
Juliett .---
Kilo -.-
Lima .-..
Mike --
November -.
Oscar ---
Papa .--.
Quebec --.-
Romeo .-.
Sierra ...
Tango -
Uniform ..-
Victor ...-
Whiskey .--
Xray -..-
Yankee -.--
Zulu --..
1 .----
2 ..---
3 ...--
4 ....-
5 .....
6 -....
7 --...
8 ---..
9 ----.
0 -----

COMMERCIAL BROADCAST AND TELEVISION STATIONS

City	Station	Frequency	Hours of Operation
Anaconda	KANA	1230	0700-2200
Belgrade	KOVW	630	0600-1800
Billings	KBMY	1240	0600-2400
	KGHL	790	0600-2400
	KGHL TV	*8	
	KOOK	970	0600-2400
	KOOK-TV	*2	1345-2400
	KOYN	910	0600-1800
	KURL	730	
Bozeman	KBMN	1230	0600-2400
	KXXL	1450	0630-2400
Butte	KBOW	1490	0600-2400
	KOPR	550	0600-2320
	KXLF	1370	0600-2400
	KXLF-TV	*4	1500-2400
Dillon	KDBM	800	0600-1800
Glasgow	KLTZ	1240	0700-2300
Glendive	KXGN	1400	0600-2400
	KXGN-TV	*5	
Great Falls	KARR	1400	0600-2400
	KFBB	1310	0600-2400
	KFBB-TV	*5	0600-2400
	KMON	560	0600-2400
	KRTV	*3	
	KUDI	1450	0600-2400
Hamilton	KLYQ	980	
Havre	KOJM	610	0600-2400
Helena	KBLL	1240	0600-2400
	KBLL-TV	*12	
	KCAP	1340	0600-2400
Kalispell	KGEZ	600	0600-2400
	KOFI	930	0600-Sunset
Lewistown	KXLO	1230	0630-2230
Libby	KLCB	1230	0600-2200
Livingston	KPRK	1340	0600-2315
Miles City	KATL	1340	0630-2305
Missoula	KGVO	1290	0600-2330
	KMSO-TV	*13	1500-2350
	KOIE	1340	0600-0100
	KXLL	1450	0630-2400
	KYSS	910	0600-1400
Shelby	KSEN	1150	0630-2400
Sidney	KGCX	1480	0550-2300
Wolf Point	KVCK	1450	0600-2400

GROUND SPEED TABLE

Second Per Statute Mile	MPH (Statute)	Knots
15	240	209
16	225	196
17	212	184
18	200	174
19	190	165
20	180	155
21	171	149
22	164	143
23	157	137
24	150	130
25	144	125
26	138	120
27	133	116
28	129	112
29	124	108
30	120	104
31	116	101
32	113	98
33	109	95
34	106	92
35	103	89
36	100	87
37	97	84
38	95	82
39	92	80
40	90	78
41	88	76
43	83	73
45	80	70
47	76	67
49	73	63
51	71	62
53	68	59
55	66	57

BRITISH COLUMBIA
ALBERTA
SASKATCHEWAN
MONTANA
IDAHO
NORTH DAKOTA
SOUTH DAKOTA
WYOMING
GLACIER NATIONAL PARK
YELLOWSTONE NATIONAL PARK
CUT BANK 114.4 CTB
GLASGOW 113.9 GSG
WILLISTON
MULLAN PASS 117.8 MLP
MALMSTROM 116.3 GFA
GREAT FALLS 115.1 GTF
MISSOULA 112.8 MSO
DRUMMOND 117.1 DRU
LEWISTOWN 112.0 LWT
HELENA 117.9 HLN
BOZEMAN 112.2 BZN
WHITEHALL 113.7 HIA
BUTTE 111.6 BTM
LIVINGSTON 116.1 LVM
BILLINGS 114.5 BIL
MILES CITY 112.1 MLS
DILLON 113.0 DLN
DUBOIS 116.9 DBS
SHERIDAN 115.3 SHR
Great Falls
Helena
Missoula
Butte
Anaconda
Billings
Miles City
Havre
Lewistown
Bozeman
Livingston
STATUTE MILES
NAUTICAL MILES
MAGNETIC VARIATION for 1960

AIRMARKED LOOKOUT TOWERS

Numbered towers on this map are airmarked. Most towers are manned during periods of fire danger only.

Designated No.	NAME	LAT	LONG
6	THOMA	48-58	114-33
17	MT HENRY	48-53	115-32
19	SEXTON	48-52	114-40
23	WEBB MTN	48-49	115-22
29	SWIFT CURRENT	48-48	113-45
32	MOUNT MARSTON	48-46	114-48
37	CYCLONE	48-44	114-19
38	MT RODERICK	48-42	115-47
40	WAREX	48-40	116-17
47	BIG CREEK BALDY	48-38	115-39
48	PINKHAM MTN	48-38	115-07
49	MOOSE	48-38	114-29
51	MT BROWN	48-38	113-50
53	DOG	48-35	114-37
56	WERNER	48-36	114-38
59	HUCKLEBERRY	48-37	114-08
65	LOOKING GLASS	48-33	113-17
68	NINEMILE	48-30	114-09
72	WHITEFISH	48-28	114-20
74	LONEMAN PK	48-29	113-45
76	ELK MTN	48-27	114-54
77	JOHNSON PK	48-27	114-41
78	DESERT	48-26	113-58
86	KEELER MTN	48-20	115-55
87	TONY PK	48-21	115-22
89	HORSE MTN	48-21	114-58
96	ASHLEY	48-17	114-42
97	FIREFIGHTER	48-20	113-52
98	HALF DOME	48-17	113-04
100	CANYON	48-16	113-44
104	CALX MTN	48-13	115-09
110	PIONEER	48-10	113-43
111	RED PLUME	48-09	113-18
119	McCAFFERY	48-07	114-04
126	CRANE	47-58	113-58
127	SIX MILE	48-00	113-51
128	KAH	47-59	113-39
129	GREEN MTN	47-57	115-39
131	GEM	47-55	115-55
134	MISSION	47-51	113-51
135	SPOTTED BEAR	47-54	113-27
139	RICHARD	47-50	115-04
150	WOODWARD (WHITETAIL)	47-47	113-53
154	BEAR TOP	47-48	112-52
155	SEX PK	47-44	115-40
160	PRISCILLA PK	47-42	115-10
161	VAN	47-41	113-42
162	MUD LAKE	47-38	112-18
163	DRIVEWAY	47-35	115-35
165	BALDY	47-32	114-50
168	JIM CREEK	47-36	113-50
169	CLARK	47-33	115-19
172	COONEY	47-32	113-38
177	HOLLAND	47-28	113-34
178	PATROL MTN	47-27	112-54
182	ELBOW	47-24	113-44
184	JUMBO	47-23	113-07
190	PATRICK'S KNOB	47-23	114-52
191	UP UP MTN	47-20	115-20
197	STEAMBOAT	47-18	112-38
199	LITTLE JOE	47-17	115-11
208	NINEMILE DIVIDE	47-13	114-47
211	FALLS POINT	47-12	112-54
214	THOMPSON PK	47-11	114-54
216	DOUBLE ARROW	47-10	113-32
224	STARK MTN	47-06	114-34
228	ILLINOIS PK	47-02	115-04
229	LANDOWNER MTN	47-02	114-56
234	WILLIAMS PK	46-58	114-44
236	MINERAL MTN	47-00	112-50
237	MONUMENT	47-00	111-05
239	HUNTER	46-56	113-29
241	YOGO PK	46-56	110-33
245	WILLIAMS MTN	46-54	110-59
246	DALTON MTN	46-52	112-43
247	GRANITE BUTTE	46-52	112-36
248	PORPHYRY PK	46-51	110-45
251	UNION	46-48	113-24
252	HOGBACK	46-49	111-43
253	WHITE MTN	46-47	114-39
255	WESTFORK BUTTE	46-44	114-25
259	MT HIGH	46-42	110-17
265	SLIDE ROCK	46-36	113-34
267	ST MARIES PK	46-31	114-14
268	COLORADO	46-30	112-12
272	BLACK PINE	46-26	113-27
274	THUNDERBOLT MTN	46-20	112-28
279	CABLE MTN	46-13	113-12
280	HAYSTACK MTN	46-08	112-18
282	DEER MTN	46-02	114-02
291	BENDER	45-47	113-43
292	HIGHLAND	45-40	112-31
293	BARE CONE	45-43	114-28
300	THUNDER MTN	45-34	114-17
301	ODELL	45-34	113-14
307	POKER JIM BUTTE	45-20	106-22
310	HORSE BUTTE	44-44	111-12
311	ANDESITE	45-16	111-22
312	CINNAMON	45-08	111-14

LIGHT GUN SIGNALS

COLOR AND TYPE OF SIGNAL	On the ground	In flight
STEADY GREEN	Clear for take off	Cleared to land
FLASHING GREEN	Cleared to taxi	Return for landing (to be followed by steady green at proper time)
STEADY RED	Stop	Give way to other aircraft and continue circling
FLASHING RED	Taxi clear of landing area (runway) in use	Airport unsafe—do not land
FLASHING WHITE	Return to starting point on airport	
ALTERNATING RED & GREEN	General Warning Signal—Exercise Extreme Caution	

Map Produced by

MONTANA AERONAUTICS COMMISSION

COMMERCIAL AIRPORT
MILITARY
FLYING FARMERS, RANCHERS, AND PRIVATE FIELDS
RECREATIONAL FIELD
FORESTRY AND EMERGENCY FIELD
BORDER AIRPORT
MAGNETIC VARIATION LINE 20° E
CITIES
TOWNS
VILLAGES
RACE TRACKS
MINES AND QUARRIES
MOUNTAIN ELEVATIONS 9255
FOREST LOOKOUT TOWER (Elevation is base of tower) 5790
HIGHWAY Primary
HIGHWAY Secondary
RAILROAD Single Track
RAILROAD Multiple Track
RAILROAD OVERPASS
RAILROAD UNDERPASS
MOUNTAIN PASSES
RESTRICTED AREAS

Edited and Approved by Feb. 9 1963

AIR NAVIGATION RADIO AIDS
and State Agencies
Operating Radio Equipment

Location	Enroute LF		Enroute VHF		Tower LF	Tower VHF/UHF		
Billings	BZ	400	BIL	114.5	278	118.3	122.5	257.8
Bozeman	BN	329	BZN	112.2				
Butte			BTM	111.6				
Cut Bank	CB	263	CTB	114.4				
Dillon	DW	379	DLN	113.0				
Drummond	DU	296	DRU	117.1				
Glasgow			GSG	113.9		122.5	126.2	236.6
Great Falls	GF	371	GTF	115.1	278	118.7	122.5	257.8
Helena	HN	317	HLN	117.9	278	118.3	122.5	257.8
Lewistown	LW	353	LWT	112.0				
Livingston	LVM	224	LVM	116.1				
Malmstrom	GFA	254	GFA	116.3		126.2	236.6	268.1
Miles City	MC	320	MLS	112.1				
Missoula	MO	308	MSO	112.8	278	118.5	122.5	257.8
Mullan Pass	MLP	411	MLP	117.8				
Whitehall	HA	284	HIA	113.7				

Aeronautics Commission and Search & Rescue Radio . . . . 37.98 mc
State Maintenance Dept. and Aeronautics Comm. Radio . . 47.07 mc
State Law Enforcement Radio . . . . 39.82 mc

CRUISING ALTITUDE RULES

180°-359°M	0°-179°M
EVEN THOUSANDS	ODD THOUSANDS
Plus 500' VFR & ON TOP (IFR - EVEN THOUSANDS)	Plus 500' VFR & ON TOP (IFR - ODD THOUSANDS)

CRUISING ALTITUDES

(IFR WITHIN CONTROLLED AIRSPACE MAY BE MODIFIED BY ATC.)

BELOW 29,000' MSL
(VFR AT OR ABOVE 3,000' AGL)
(IFR OUTSIDE CONTROLLED AIRSPACE)

USE 29.92 ALTIMETER SETTING ABOVE 23,500' MSL

VISUAL FLIGHT RULES—MINIMUMS

		IN CONTROL ZONES	IN CONTROL AREAS	ELSEWHERE
At altitudes of more than 700' above the surface	Visibility	3 Miles[1]	3 Miles	1 Mile
	Distance from clouds	500' vertically under, or 1000' vertically over and 2000' horizontally and 1000' ceiling	500' vertically under, or 1000' vertically over and 2000' horizontally	500' vertically under, or 1000' vertically over and 2000' horizontally
At 700' or less above the surface	Visibility	3 Miles[1]	Control Areas do not extend below 700' above the surface. Therefore the "elsewhere" minimum apply	1 Mile[2]
	Distance from clouds	500' vertically and 2000' horizontally and 1000' ceiling		Clear of clouds

[1] If traffic conditions permit, air traffic control will issue an air traffic clearance when the minimums are less than those specified, but under this provision the flight must remain clear of clouds

[2] Visibility minimum does not apply to helicopters if operated at a reduced speed at or below 700' above the surface and outside of control zones

REMEMBER:

AVIATION IN ITSELF IS NOT INHERENTLY DANGEROUS, BUT, TO AN EVEN GREATER EXTENT THAN THE SEA IS UNREMITTINGLY UNFORGIVING OF CARELESSNESS

EMERGENCY RADAR PROCEDURES

ASR AIR SURVEILLANCE RADAR

In Montana ASR facilities are located at Glasgow AFB and Malmstrom AFB and while their range is designed for 50 naut. miles their effectiveness is generally limited to 30 naut. miles from the facility. EMERGENCY RADIO CONTACT with these facilities can be made on VHF FREQ 121.5 or UHF FREQ. 243.0. If unable to make radio contact see RADAR ALERT PROCEDURES below.

ADC RADAR AIR DEFENCE COMMAND RADAR

Due to security restrictions ADC facilities are not described herein by location, identification, or operating range, however in emergency or distress conditions the pilot may attempt to alert the ADC Radar network by following the Radar Alert Procedures below.

RADAR ALERT PROCEDURES

1. IF RECEIVER ONLY IS OPERATING fly a triangular pattern to the RIGHT. Hold each heading for TWO MINUTES. Complete a minimum of two such patterns before resuming original course and then repeat pattern at 20 min. intervals. GUARD EMERGENCY FREQUENCIES.
   NOTE If radar contact is established by ADC, instructions will be given on 243.0. VHF only equipped aircraft will be handled by ADC as aircraft without radio.
2. IF UNABLE TO MAKE RADIO CONTACT fly a triangular pattern to the LEFT, holding each heading for TWO MINUTES as previously described. If radar contact is established a rescue aircraft will be dispatched for intercept. Resumption of course will not compromise this system as the aircraft will continue to be tracked as "distressed" from point of initial contact. If distressed aircraft is flying in IFR conditions or if at night landing lights, navigational lights, etc. should be turned on to aid the interceptor.

PROCEDURES FOR AIRCRAFT IN DISTRESS WHEN INTERCEPTED

1. Attempt radio contact if possible.
2. If able to maintain a minimum of 210 knots, get in tail formation and the interceptor will lead you to the nearest suitable airport.
3. If unable to maintain a minimum of 210 knots, the interceptor will fly in the direction you should fly, circle to the left and again fly in the proper direction. This procedure will be repeated until the area for descent is reached. The interceptor will circle to the right over the area where you should descend. The distressed aircraft should let down in a descending turn at minimum rate of descent.
4. If the interceptor must leave the distressed aircraft
   (A) If the interceptor turns his lights from steady to blinking for 15 seconds, then breaks formation with lights blinking (night) or wing rocking (day), the distressed aircraft should continue on course.
   (B) If the interceptor turns his lights from steady to blinking for 30 seconds, then back to steady and breaks formation with lights steady (night) or fishtails (day), the distressed aircraft should resume distress orbit.

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